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SIF 本屆專利內容(一)

E7/03/26 11:30:03

專利名稱：輕巧型壁膠袋封口機

Hairy Bag SCAT-13

專利類別：新型  
分類號：B29C65/24

APPLY DATA-

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續開告書利賜與年減淡一  
號申請期號接：貲日原次  
中相公公註意具該繳消清第

公告日期：五〇六〇年

公 司 聯 繫 : 770401  
總 電 號 : 03000000000  
傳 真 號 : 03000000000

專利權止日：67/03/31

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专利

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ISSUED 4/1/88

097926

申請發明、新型、及圖樣專利說明書			申請日期 76/09/11	出號 76209888	分類 B65D
一、發明創作			名稱 輕巧型塑膠袋封口機	29c	
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## 一、創作之名稱：輕巧型塑膠袋封口機

## 二、創作之摘要說明：

一種輕巧型塑膠袋封口機，尤指一種使用直流電操作之輕巧型塑膠袋封口機，其外部係由一長方形殼體及一上蓋組成，殼體內可放乾電池做為電源，殼體前端並設有發熱盤，後端設有彈片和指狀簧片，上蓋設有開關，可控制上蓋之是否能壓下而迫使彈片和指狀簧片接觸，形成通路，整體創作，體積小，操作簡便，成本低廉，一般人及一般家庭，亦均可使用，並可隨身攜帶，為其特徵者。

## 三、創作之詳細說明：

本創作乃一種體積小、操作簡便之輕巧型手提直流電熱塑膠袋封口機。

在日常生活中，常有將東西放進塑膠袋以便於儲存或攜帶的時候，例如袋裝的奶粉、糖果等食品開封後沒吃完，要繼續保存，或是將各種魚、肉、菜、蔬放進塑膠袋，以便冷凍收藏。上述保存食品的實例中，如果能將塑膠袋的袋口封合，將能使食品保持更佳之新鮮度。又者，一般人外出，或是商店出售貨物，對於大量而零碎之物品，也多將之放於塑膠袋中，以便攜帶。此時，若能將塑膠袋袋口封合，以防止東西掉出來，更可增加攜帶上的方便性。然而，塑膠袋又軟又薄，若以鉤舌機鉤合，既不能全面封住袋口，反而容易造成破損，欲以膠帶黏合，往往因膠帶無柔軟性而袋子又軟，弄得手忙腳亂，徒然使袋子壞掉一團，甚至破損。

目前，市面上已有一種塑膠袋之加熱封口機，係利用水流

電操作使封口機之發熱體發熱，產生高溫，並以高溫加熱使塑膠袋袋口粘合。然而此種交流發電型的塑膠袋封口機體積大、價格高昂，並不適合一般家庭、個人使用。即使對一般工廠的使用而言，一種體積小、不佔空間、成本低而功能卻毫不遜色的設備，自然比體積大、價格高的同等設備更為適合，較能符合經濟效益。

有鑑於此，本案創作人乃經多年苦心研思，而創作一種直流電熱輕巧型塑膠袋封口機。體積小、重量輕，且係採直流發電，可裝設乾電池做為電源，故可隨身攜帶。成本低、價格便宜，故一般家庭均可購買備用。將欲保存或攜帶之物品放入塑膠袋中，以本創作封合袋口，非常實用，且操作方法非常簡便，人人均可輕易為之。工廠包裝產品，亦可使用本創作封合包裝袋的袋口，簡單迅速、節省時效，且價格低，又不佔空間，符合經濟效益。再者，本創作既屬輕巧型，其構造不似習用之塑膠袋封口機那麼複雜，所以不須要做特別的維修保養工作，即可維持相當長久的使用壽命，即使偶有零件損壞，換修也很容易。

依本創作之此種輕巧型塑膠袋封口機，其構造主要係於一體積略大於兩個C型乾電池之殼體中，可放置乾電池，以供給電源。殼體前端設有發熱體。一上蓋於和發熱體相對位置上，設有壓合部，將欲封合之塑膠袋口置於壓合部和發熱體之間，輕推上蓋，瞬間即可粘合。

本創作之主要目的在提供一種家用直流電流，體積小、重量輕，可隨身攜帶之輕巧型塑膠袋封口機。

本創作之次一目的在提供一種價格大衆化，可普及一般家庭使用之輕巧型塑膠袋封口機。

本創作之另一目的在提供一種操作簡便之輕巧型塑膠袋封口機。

本創作之再一目的在提供一種符合經濟效益之輕巧型塑膠袋封口機。

本創作之又一目的在提供一種使用壽命長，不須特別保養，零件之換修也很容易之輕巧型塑膠袋封口機。

為便於審查委員對本案之了解，茲舉一實施例，並配合附圖詳細說明之。

#### 第一圖為本創作之實施例分解圖

#### 第二圖為本創作之實施例組合圖

如附圖所示，本創作之塑膠袋封口機其外部主要包括一長方形殼體 10、一上蓋 20。殼體 10 係由一上殼體 10A、一下殼體 10B 所組成，體積略大於兩個 C 型乾電池。其內部可放置乾電池，做為電源，前端並設有發熱體 12，發熱體 12 上表面外覆有保護網膜。上殼體 10A 前端有一缺口 101，俾發熱體 12 由此缺口 101 略微突出。上殼體 10A 表面並設一向右上突起之擋卡 13，近末端設有一彈片 14、一指狀簧片 15。彈片 14 和指狀簧片 15 分別以導線、導電半導片與殼體 10 內部之電路相接。其中彈片 14 末端向上跳起，並延伸至指狀簧片 15 上空，壓下彈片 14 末端，使之與指狀簧片 15 接觸，則可將儲電路形成通路。反之，當彈片 14 未被壓下時，而使之與指狀簧片 15 分離，則路徑為斷路。上蓋 20 尾部 21 與覆住殼體 10 之繩 11，並以繩栓方式結合，



俾上蓋 20 可旋轉掀起或壓下。上蓋 20 前端於與殼體 10 之發熱體 12 相對應的位置設有壓合部 22。壓合部係一軟質絕緣材料（如塑膠）外覆保護網膜（隔熱網膜）而成。又，上蓋 20 於與殼體 10 之擋卡 13 相對應的位置設有開關 23。開關 23 係可前後推移者，向下並延伸有二卡柱 231。當開關 23 推至 “OFF” 位置時，若壓下上蓋 20，卡柱 231 正好被擋卡 13 擋住，使上蓋 20 不能繼續下壓。當開關 23 推至 “ON” 位置時，卡柱 231 亦前隨之前移而與擋卡 13 錯開，故上蓋 20 可完全下壓。上蓋 20 之末端遂迫使彈片 14 末端受壓而向下彎，得以和指狀簧片 15 接觸，形成通路，使發熱體在極短的時間內，產生足夠的高溫。換言之，將欲封合之塑膠袋袋口 置於發熱體 12 和壓合部 22 之間，瞬間即可粘合。如果欲粘合部位較長甚至要將袋口整個密封時，只要如上述之法，以發熱體 12、壓合部 22 夾住袋口，持本創作往一定方向移動即可。

本創作除了可以封閉塑膠袋袋口，欲將二軟質塑膠材料粘合時，亦可適用，可謂為一非常理想之新型創作。

## 四申請專利範圍：

1. 一輕巧型塑膠袋封口機，其外部主要係由一殼體、一上蓋所組成；殼體內可放乾電池，前端並設有發熱體；上蓋尾部包覆殼體末端，其前端於與發熱體相對應之位置設有壓合部，為其特徵者。

2. 如申請專利範圍第1項所述之輕巧型塑膠袋封口機，其中之殼體，係由一上殼體、一下殼體組成；上殼體前端有一缺口，近末端處設有一彈片、一指狀簧片，分別以電線、導電金屬片和殼體內之電路相接，彈片末端向上翹起，並延伸至指狀簧片上空；上殼體表面並設有一擋卡，為其特徵者。

3. 如申請專利範圍第1項所述之輕巧型塑膠袋封口機，其中之發熱體由上殼體前端之缺口略微突出；其上表面並外覆有保護網膜，為其特徵者。

4. 如申請專利範圍第1項所述之輕巧型塑膠袋封口機，其中之上蓋設有開關，開關向下延伸有卡柱，為其特徵者。

5. 如申請專利範圍第1項所述之輕巧型塑膠袋封口機，其中之壓合部係一軟質絕緣材料外覆保護網膜而成，為其特徵者。

87.3.16

Information Service, National Bureau of Standards

SIIF Domestic Patent Content (I) 87/03/20 11:30:08  
name of patent: Light Type Plastic Bag Sealing Machine

type of patent: new model

classification No.: B29C65/24

application No.: 76208888

date of application: 1987/09/11

related application No.: NA

public announcement No.: 097926

date of public announcement: 1988/04/01

public announcement volume & issue: Issue 07, Volume 15

reduced film roll No.: NA

certificate No.: 040687 (new model)

patent right commencement date: 1988/04/01

patent right termination date: 1998/03/31

objection: none report of forgery: none lease: none

transfer: none heritage: none practice of franchise: none

effective date of annual fee payment/(year, frequency):  
1990/03/31 (02)

termination date: 1990/03/31

reason of termination: 48105 failing to make payment on  
schedule

date of first time of priority right: (0)

<none> microbiology existence

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Explanation of the Patent Application for  
Invention, New Model, New Type.

date of application: 9/11/1987

No.: 76208888

category: B65B 29c

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I. Invention & Creation

name: light model plastic bag opening sealing machine

II. Invention Created by

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I. Name of Creation:  
Light model plastic bag sealing machine

II. Abstract Explanation of Creation:

A kind of light type plastic bag sealing machine, in particular referring to a kin of light model plastic bag sealing machine by means of DC current in operation. Its facade is composed of a rectangular case with an upper cover, within the case, dry battery can be fitted to serve as power source. At the front end of the case, a heater is also devised, with spring piece and finger-shaped metal tongue fitted at the back end. A switch is devised to the upper cover, able to control if the upper cover can be pressed down to force the spring piece and finger-shaped metal tongue to touch, forming a passage. The integral creation is small in size, simple in operation, at low cost, able to be used by general public and household. It can also be portable. The above are its characteristics.

III. Detailed Explanation of Creation:

This creation is a light model portable DC electrical heating plastic bag sealing machine, of small size and simple operation.

In daily life, there are many occasions one would put things into plastic bag to facilitate storage or carrying, such bag-packaged food as milk powder,

candy, etc., if not completed after opening a seal and intended to be kept continuously, or as one intends to put various kinds of fish, meat, fruit, or vegetable into a plastic bag to facilitate freezing for storage. In the actual practice of the above food preservation, if one can seal the bag opening of a plastic bag, the food can be maintained with better freshness. Besides, as general public get outdoors or a store sells food, concerning the item in large quantity but miscellaneous, it is also put into a plastic bag to facilitate carrying. At this time, if the plastic bag opening is sealed to prevent things from dropping out, it can increase convenience in carrying. However, a plastic bag is both soft and thin, if it is sealed by a stapler, the bag opening cannot be fully sealed but easily damaged. If one intends to seal it with tape, often because the tape is sticky and bag is soft to cause chaos, and the bag becomes wrinkled or damaged after all.

At present, a kind of heating opening sealing machine is available in market. It is to use AC current to make the bag sealing machine to generate heat, producing high temperature and then by means of heating at high temperature, the plastic bag opening is fitted. However, this kind of AC generating model plastic bag opening is large in size, expensive in price, not applicable to general households or individuals in use. Even if it is used by general plants, a kind of equipment of small size, without requirement of much space, at low cost yet with equal

performance naturally is more appropriate than the similar equipment of large size and high price which can better conform to economic performance.

In view of this, the creator of the case, through hard study for many years, creates a kind of DC electrical heating light model plastic bag sealing machine. It is small in size, light in weight, and in DC power generation, able to devise dry battery as power source, and therefore can be portable. It is in low cost and cheap price, and therefore applicable to general households. If one puts the item intended to be preserved or carried into a plastic bag, and seals the bag with this creation, it is very practical, and with extremely simple operation, easily conducted by everyone. A plant may also use this product in packaging its product, which is simple, rapid, time saving, and low in price, without requirement of much space, conforming to economic performance. What is more, this creation is a light model. Its structure is not that complicated as the traditional plastic bag sealing machine, and therefore without requiring particular maintenance work to be able to maintain a considerable long service life. Even if parts are damaged, the replacement is also easy.

According to this invention, the structure of this kind of light model plastic bag sealing machine is mainly composed of a case with dimension slightly larger than 2 C-type dry battery, able to laid with

dry battery to provide power source. At the front end of case, a heater is devised. One upper cover is devised to the relative position of heater, devised with compaction sector, put the plastic bag opening intended to be sealed between the compaction sector and heating body, press the upper cover lightly, it can be fitted in an instant.

The main goal of this creation is to provide a kind of light model plastic bag sealing machine in application of DC current, small size, light weight, able to be portable.

The next goal of this invention is to provide a light model plastic bag sealing machine with popular price, able to be applicable to general households.

Another goal of this invention is to provide a light model plastic bag sealing machine with simple operation.

A further goal of this invention is to provide a kind of light model plastic bag sealing machine conforming to economic performance.

A following goal of this invention is to provide a kind of light model plastic bag sealing machine with long service life, not requiring special maintenance, and easy replacement of parts.

In order to facilitate review committee members to

understand this case, a practical operation example is provided, complied with drawings, for explanation.

Diagram 1 refers to the analytical drawing of the practice.

Diagram 2 refers to the composition drawing of the invention.

As shown in the diagram, the external part of the light model plastic bag sealing machine of this invention mainly includes a rectangular case frame 10, one upper cover 20. The case 10 is composed of an upper case body 10A, one lower case body 10B, with size to be a little larger than 2 C-type dry batteries. Inside it, dry batteries can be fitted to provide power source. At the front end, a heater 12 is devised. The upper surface of the heater 12 is coated with a protection membrane. At the front end of the upper case body 10A, there is a crevice 101, to facilitate the heater 12 to extrude slightly from this crevice. At the surface of the upper case body 10A, a baffle 13 extruded upward is also devised, with a spring piece and one finger-shaped metal tongue 15 near its end. The spring piece 14 and finger-shaped metal tongue 15 are separately connected to the internal circuit of case body 10 with circuit and power conducting metal piece. Among which, the end of the spring piece 14 bends upward, and extends above the finger-shaped metal tongue 15. Press down the end of spring piece 14, making it to

touch with finger-shaped metal tongue 15, the integral circuit will form a passage. On the contrary, as the end of spring piece 14 is not pressed, but separated from the finger-shaped metal tongue 15, the circuit is cut off.

The tail 21 of upper cover 20 covers the end 11 of case 10, and connected in bushing manner, to facilitate the upper cover 20 to be rotated up or pressed down. At the corresponding place of the front end of upper cover 20 and heater 12, a compaction sector 22 is devised. The compaction sector is a soft insulation material (such as plastic), coated with protection mesh membrane (insulation mesh membrane). Besides, at the corresponding place of upper cover 20 and the baffle 13 of case body 10, a switch 23 is devised. The switch 23 can be pushed in motion, while extanded downward, there are 2 blocks 231. As the switch 23 is pushed to "OFF" position, if the upper cover 20 is pressed down, block 231 happens to be blocked by baffle 13, making upper cover 20 to be unable to be continuously pressed down. As the switch 23 is pushed to "ON" position, block 231 also moves forward accordingly to miss baffle 13; therefore, the upper cover 20 can be fully pressed down. The end of upper cover 20 therefore is forced to make the end of spring piece 14 to be pressed and bent downward, able to touch with metal tongue 15, forming a passage, making the heater to produce sufficiently high temperature with an extremely short period of time.

In other words, put the plastic bag opening between the heater 12 and compaction sector 22, in an instant, it can be sealed. If it is intended to seal a longer part or even the whole bag opening, just follow the above method by clipping the bag opening with heater 12 and compaction sector 22, hold this invention to move toward a fixed direction, and it works.

This invention, besides being able to seal a plastic bag opening, is also applicable while sticking two soft plastic material. It can be considered a very ideal new model creation.

#### IV. Scope of Patent Application:

1. A kind of light model plastic bag sealing machine, with its external part composed mainly of one case body and one upper cover; in the case, dry batteries can be fitted, and a heater is devised to its front end. The tail part of upper cover coats the end of case, and a compaction sector is devised at its front end at the corresponding place to the heater. The above refer to its characteristics.
2. The light model plastic bag sealing machine as mentioned in Item 1 of the scope of patent application, in its case, it is composed of one upper case body and one lower case body; at the front end of the upper case body, there is a crevice, and near the end plate, one spring piece and one finger-shaped

metal tongue are devised, separately connected with wire and electricity conducting metal piece. The end of the spring piece bends upward, and extends above the finger-shaped metal tongue; at the surface of the upper case body, one baffle is also devised. These are its characteristics.

3. The light model plastic bag sealing machine as mentioned in Item 1 of the scope of patent application, in which the heater extrudes slightly through the crevice of the front end of the upper case body; the surface above it is also coated with a protection mesh membrane. These are its characteristics.
4. The light model plastic bag sealing machine as mentioned in Item 1 of the scope of patent application, in which, the upper cover is devised with a switch, extending downward is provided with a block. These are its characteristics.
5. The light model plastic bag sealing machine as mentioned in Item 1 of the scope of patent application, in which, the compaction sector is made of a soft insulation material, coated with protection mesh membrane. These are its characteristics.

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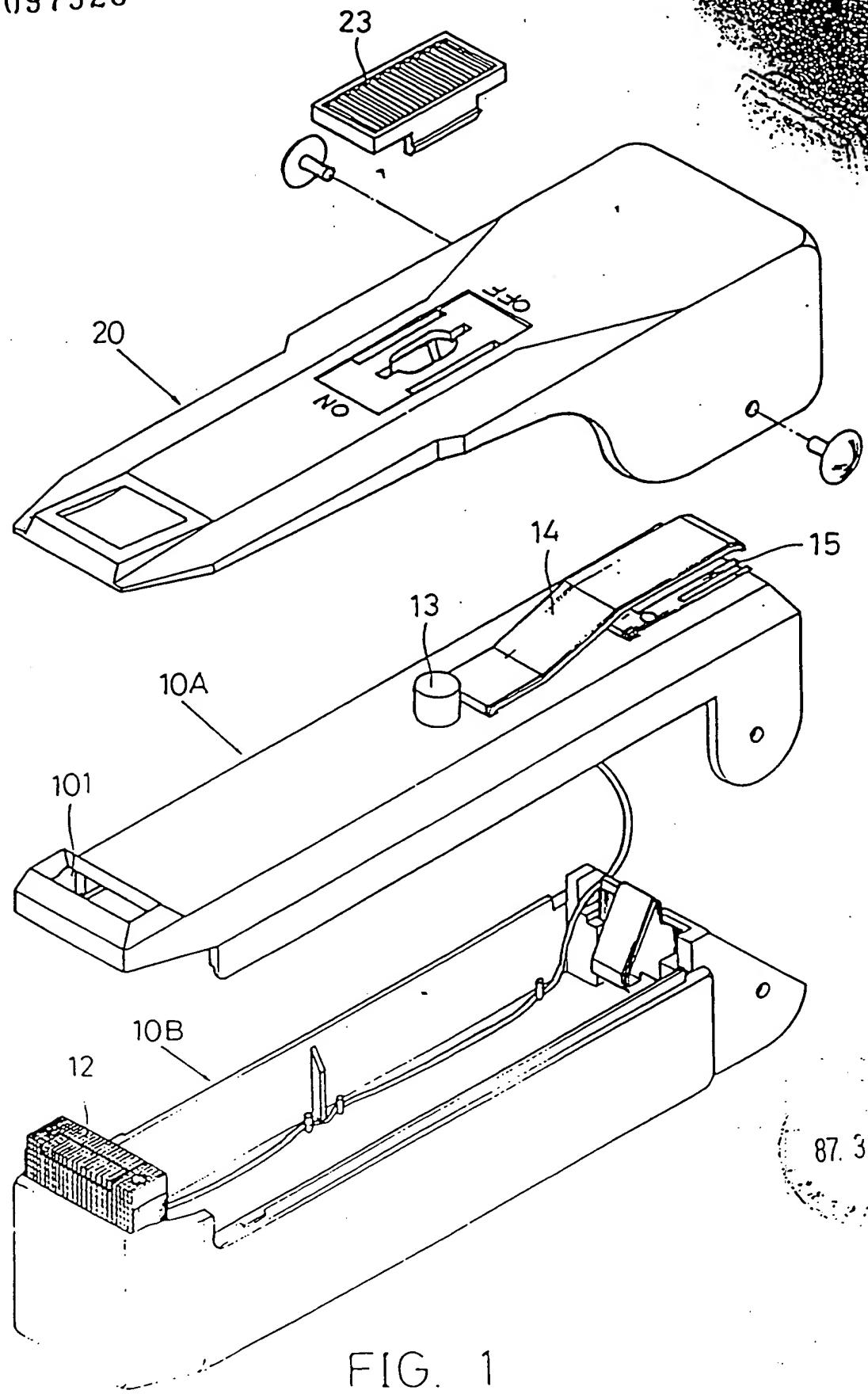


FIG. 1

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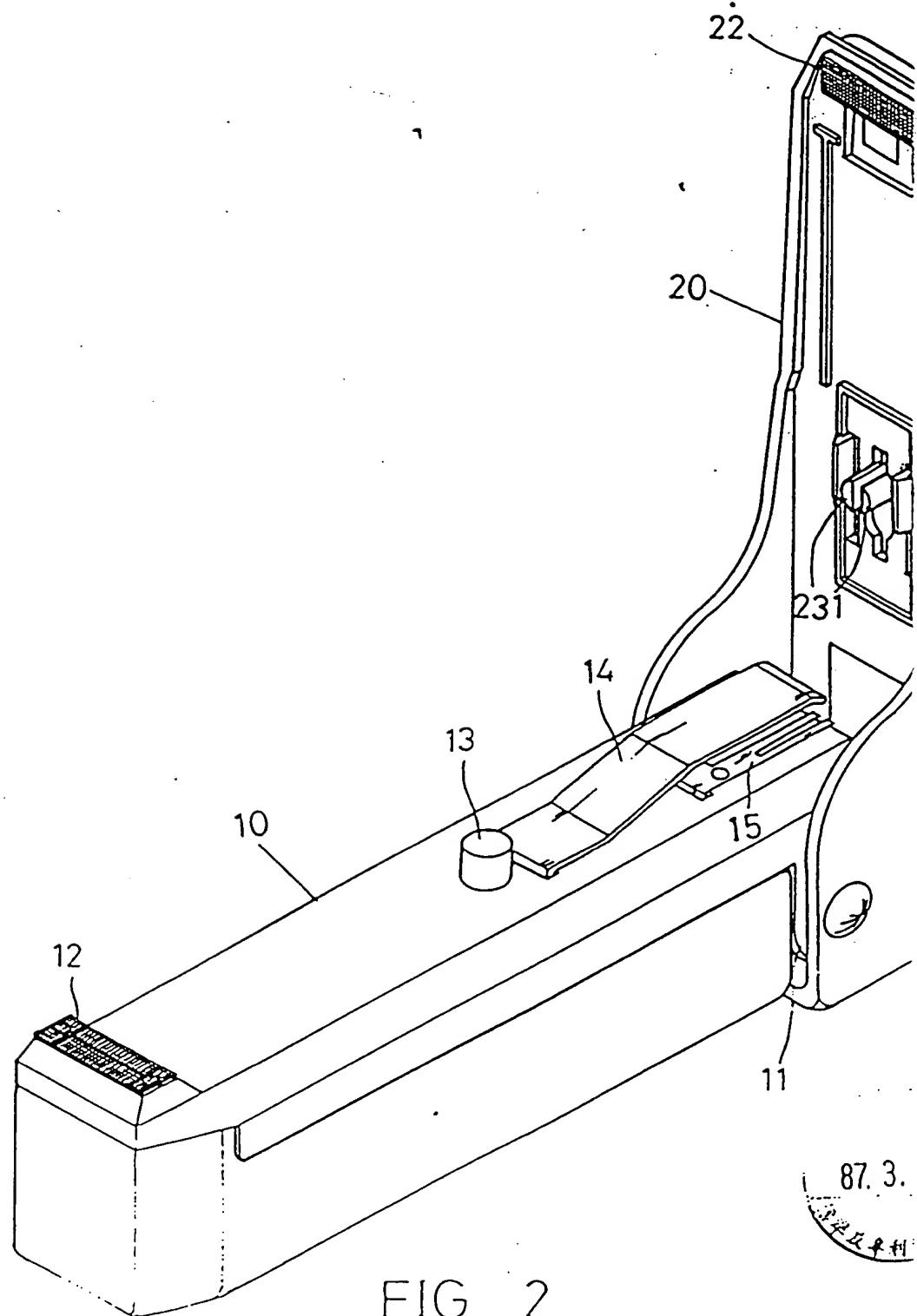


FIG. 2

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